

\$%^STN;HighlightOn= ***;HighlightOff=*** ;

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID : SSSPTA1600RKK

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * Welcome to STN International * * * * * * * * * * *

| | | |
|------|----|--|
| NEWS | 1 | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | Apr 08 "Ask CAS" for self-help around the clock |
| NEWS | 3 | Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area |
| NEWS | 4 | Apr 09 ZDB will be removed from STN |
| NEWS | 5 | Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB |
| NEWS | 6 | Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS |
| NEWS | 7 | Apr 22 BIOSIS Gene Names now available in TOXCENTER |
| NEWS | 8 | Apr 22 Federal Research in Progress (FEDRIP) now available |
| NEWS | 9 | Jun 03 New e-mail delivery for search results now available |
| NEWS | 10 | Jun 10 MEDLINE Reload |
| NEWS | 11 | Jun 10 PCTFULL has been reloaded |
| NEWS | 12 | Jul 02 FOREGE no longer contains STANDARDS file segment |
| NEWS | 13 | Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid |
| NEWS | 14 | Jul 29 Enhanced polymer searching in REGISTRY |
| NEWS | 15 | Jul 30 NETFIRST to be removed from STN |
| NEWS | 16 | Aug 08 CANCERLIT reload |
| NEWS | 17 | Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN |
| NEWS | 18 | Aug 08 NTIS has been reloaded and enhanced |
| NEWS | 19 | Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN |
| NEWS | 20 | Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded |
| NEWS | 21 | Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded |
| NEWS | 22 | Aug 26 Sequence searching in REGISTRY enhanced |
| NEWS | 23 | Sep 03 JAPIO has been reloaded and enhanced |
| NEWS | 24 | Sep 16 Experimental properties added to the REGISTRY file |
| NEWS | 25 | Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS |
| NEWS | 26 | Sep 16 CA Section Thesaurus available in CAPLUS and CA |
| NEWS | 27 | Oct 01 CASREACT Enriched with Reactions from 1907 to 1985 |
| NEWS | 28 | Oct 21 EVENTLINE has been reloaded |
| NEWS | 29 | Oct 24 BEILSTEIN adds new search fields |
| NEWS | 30 | Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN |
| NEWS | 31 | Oct 25 MEDLINE SDI run of October 8, 2002 |
| NEWS | 32 | Nov 18 DKILIT has been renamed APOLLIT |
| NEWS | 33 | Nov 25 More calculated properties added to REGISTRY |
| NEWS | 34 | Dec 02 TIBKAT will be removed from STN |
| NEWS | 35 | Dec 04 CSA files on STN |
| NEWS | 36 | Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date |
| NEWS | 37 | Dec 17 TOXCENTER enhanced with additional content |
| NEWS | 38 | Dec 17 Adis Clinical Trials Insight now available on STN |

NEWS 39 Dec 30 ISMEC no longer available

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
 CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 09:48:29 ON 07 JAN 2003

=> file agricola biosis embase caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
SESSION
FULL ESTIMATED COST ENTRY SESSION

FILE 'AGRICOLA' ENTERED AT 09:48:41 ON 07 JAN 2003

FILE 'BIOSIS' ENTERED AT 09:48:41 ON 07 JAN 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R)

FILE 'EMBASE' ENTERED AT 09:48:41 ON 07 JAN 2003
COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'CAPLUS' ENTERED AT 09:48:41 ON 07 JAN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s cytochrome and desaturase and fusion
L1 48 CYTOCHROME AND DESATURASE AND FUSION

```
=> duplicate remove l1  
DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, EMBASE, CAPLUS'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L1
```

L2 ANSWER 1 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
1
AN 2002:392645 BIOSIS
DN PREV200200392645

TI A third fatty acid DELTA9- ***desaturase*** from Mortierella alpina
with a different substrate specificity to ole1p and ole2p.
AU MacKenzie, Donald A. (1); Carter, Andrew T.; Wongwathanarat, Prasert;
Eagles, John; Salt, Joanne; Archer, David B.
CS (1) Institute of Food Research, Norwich Research Park, Colney, Norwich,
NR4 7UA: donald.mackenzie@bbsrc.ac.uk UK
SO Microbiology (Reading), (June, 2002) Vol. 148, No. 6, pp. 1725-1735.
print.
ISSN: 1350-0872.
DT Article
LA English

L2 ANSWER 2 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:607983 BIOSIS
DN PREV200200607983
TI Altering specificity of a Ricinus communis ***cytochrome*** b5
fusion ***desaturase*** .
AU Michaelson, L. V. (1); Napier, J. A. (1)
CS (1) Long Ashton Research Station, IACR, Long Ashton, Bristol, BS41 9AF UK
SO Biochemical Society Transactions, (2002) Vol. 30, No. 5, pp. A123. print.
Meeting Info.: Biochemical Society 677th Meeting Wales, Cardiff, UK
December 07-10, 2002
ISSN: 0300-5127.
DT Conference
LA English

L2 ANSWER 3 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:607900 BIOSIS
DN PREV200200607900
TI Altering specificity of a Ricinus communis ***cytochrome*** b5
fusion ***desaturase*** .
AU Michaelson, L. V. (1); Napier, J. A. (1)
CS (1) Long Ashton Research Station, IACR, Long Ashton, Bristol, BS41 9AF UK
SO Biochemical Society Transactions, (2002) Vol. 30, No. 5, pp. A102. print.
Meeting Info.: Biochemical Society 677th Meeting Wales, Cardiff, UK
December 07-10, 2002
ISSN: 0300-5127.
DT Conference
LA English

L2 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2001:780962 CAPLUS
DN 135:340221
TI Differentially expressed nucleic acids and their encoded proteins for the
therapy and diagnosis of human breast cancer
IN Jiang, Yuqiu; Dillon, Davin C.; Mitcham, Jennifer L.; Xu, Jiangchun;
Harlocker, Susan L.; Hepler, William T.
PA Corixa Corporation, USA
SO PCT Int. Appl., 297 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 8

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| PI | WO 2001079286 | A2 | 20011025 | WO 2001-US12164 | 20010412 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, | | | | |

CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
US 2002064872 A1 20020530 US 2000-604287 20000622
PRAI US 2000-551621 A 20000417
US 2000-590751 A 20000608
US 2000-604287 A 20000622
US 2000-620405 A 20000720

L2 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2002:43345 CAPLUS
DN 136:319709
TI Transcriptional profiling reveals global defects in energy metabolism, lipoprotein, and bile acid synthesis and transport with reversal by leptin treatment in Ob/ob mouse liver
AU Liang, Chien-Ping; Tall, Alan R.
CS Division of Molecular Medicine, Department of Medicine, Columbia University, New York, NY, 10032, USA
SO Journal of Biological Chemistry (2001), 276(52), 49066-49076
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2001:473659 CAPLUS
DN 135:205729
TI Microarray analysis of the in vivo effects of hypophysectomy and growth hormone treatment on gene expression in the rat
AU Flores-Morales, Amilcar; Stahlberg, Nina; Tollet-Egnell, Petra; Lundeberg, Joakim; Malek, Renae L.; Quackenbush, John; Lee, Norman H.; Norstedt, Gunnar
CS Department of Molecular Medicine, Karolinska Institute, Stockholm, 17176, Swed.
SO Endocrinology (2001), 142(7), 3163-3176
CODEN: ENDOAO; ISSN: 0013-7227
PB Endocrine Society
DT Journal
LA English
RE.CNT 92 THERE ARE 92 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2001:312014 CAPLUS
DN 136:64938
TI Toward elucidating the global gene expression patterns of developing *Arabidopsis*: parallel analysis of 8 300 genes by a high-density oligonucleotide probe array
AU Zhu, Tong; Budworth, Paul; Han, Bin; Brown, Devon; Chang, Hur-Song; Zou, Guangzhou; Wang, Xun

CS Torrey Mesa Research Institute, Inc., San Diego, CA, 92121, USA
SO Plant Physiology and Biochemistry (Paris, France) (2001), 39(3-4), 221-242
CODEN: PPBIEX; ISSN: 0981-9428
PB Editions Scientifiques et Medicales Elsevier
DT Journal
LA English

RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2000:241512 CAPLUS
DN 132:262126
TI Fatty acid ***desaturases*** of Mortierella and the genes encoding them and their use in the preparation of polyunsaturated fatty acids for food use
IN Mukerji, Pradip; Huang, Yung-Sheng; Parker-Barnes, Jennifer M.; Das, Tapas
PA Abbott Laboratories, USA
SO PCT Int. Appl., 170 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|--|----------|-----------------|----------|
| PI | WO 2000020602 | A2 | 20000413 | WO 1999-US22686 | 19990929 |
| | WO 2000020602 | A3 | 20000817 | | |
| | W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |

PRAI US 1998-103110P P 19981005

L2 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2000:53889 CAPLUS
DN 132:103752
TI Expression constructs for use in plant plastids using ribosome binding sites that increase the efficiency of translation
IN McBride, Kevin E.; Staub, Jeffrey M.
PA Calgene LLC, USA
SO PCT Int. Appl., 55 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|--|----------|-----------------|----------|
| PI | WO 2000003017 | A2 | 20000120 | WO 1999-US15713 | 19990708 |
| | WO 2000003017 | A3 | 20000706 | | |
| | W: | CA, JP, MX | | | |
| | RW: | AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | |

US 6271444 B1 20010807 US 1998-113690 19980710

| | | | |
|--|-------------|-----------------|----------|
| CA 2333308 | AA 20000120 | CA 1999-2333308 | 19990708 |
| EP 1095144 | A2 20010502 | EP 1999-933908 | 19990708 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI | | | |
| JP 2002520022 | T2 20020709 | JP 2000-559238 | 19990708 |
| PRAI US 1998-113690 | A 19980710 | | |
| WO 1999-US15713 | W 19990708 | | |

L2 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 2000:645718 CAPLUS
 DN 133:248062
 TI Human fatty acid ***desaturases*** and cDNAs and their use in diagnosis and therapy
 IN Weber, Bernhard H. F.; Marquardt, Andreas
 PA Multigene Biotech G.m.b.H., Germany
 SO Eur. Pat. Appl., 72 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| PI EP 1035207 | A1 | 20000913 | EP 1999-104664 | 19990309 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | | |
| WO 2000053770 | A1 | 20000914 | WO 2000-EP1979 | 20000307 |
| W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM,
EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK,
LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI,
SK, TJ, TM, TR, TT, TZ, UA, US, UZ, VN, YU, ZA | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| PRAI EP 1999-104664 | A | 19990309 | | |
| RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | | |

=> d 11-20

L2 ANSWER 11 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
 2
 AN 2001:185829 BIOSIS
 DN PREV200100185829
 TI Further characterization of DELTA8-sphingolipid ***desaturases*** from higher plants.
 AU Sperling, P.; Blume, A.; Zaehringer, U.; Heinz, E. (1)
 CS (1) Institut fuer Allgemeine Botanik, Universitaet Hamburg, Ohnhorststr.
 18, 22609, Hamburg: eheinz@botanik.uni-hamburg.de Germany
 SO Biochemical Society Transactions, (December, 2000) Vol. 28, No. 6, pp.
 638-641. print.
 ISSN: 0300-5127.
 DT Article
 LA English
 SL English

L2 ANSWER 12 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE

3

AN 2001:186330 BIOSIS
DN PREV200100186330
TI Mutagenesis of the borage DELTA6 fatty acid ***desaturase*** .
AU Sayanova, O.; Beaudoin, F.; Libisch, B.; Shewry, P.; Napier, J. (1)
CS (1) IACR-Long Ashton Research Station, Department of Agricultural
Sciences, University of Bristol, Long Ashton, Bristol, BS41 9AF:
olga.sayanova@bbsrc.ac.uk UK
SO Biochemical Society Transactions, (December, 2000) Vol. 28, No. 6, pp.
636-638. print.
ISSN: 0300-5127.

DT Article
LA English
SL English

L2 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2000:548840 CAPLUS
DN 133:146377
TI Fatty acid desaturation system and ***fusion*** enzyme
AU Aki, Tsunehiro; Ono, Kazuhisa; Suzuki, Osamu
CS Grad. Sch. Adv. Sci. Matter, Hiroshima Univ., Japan
SO Kagaku to Seibutsu (2000), 38(8), 520-527
CODEN: KASEAA; ISSN: 0453-073X
PB Gakkai Shuppan Senta
DT Journal; General Review
LA Japanese

L2 ANSWER 14 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
4
AN 2000:346816 BIOSIS
DN PREV200000346816
TI cDNA cloning, genomic structure, and chromosomal localization of three
members of the human fatty acid ***desaturase*** family.
AU Marquardt, Andreas; Stoehr, Heidi; White, Karen; Weber, Bernhard H. F. (1)
CS (1) Biozentrum, Institut fuer Humangenetik, Am Hubland, D-97074, Wuerzburg
Germany
SO Genomics, (June, 2000) Vol. 66, No. 2, pp. 175-183. print.
ISSN: 0888-7543.
DT Article
LA English
SL English

L2 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2000:64278 CAPLUS
DN 132:247747
TI Mammalian .DELTA.-6 fatty acid ***desaturase*** : molecular cloning and
physiological significance
AU Aki, Tsunehiro; Ono, Kazuhisa; Suzuki, Osamu
CS Department of Molecular Biotechnology, Graduate School of Advanced
Sciences of Matter, Hiroshima University, Kagamiyama, Higashi-Hiroshima-
shi, Hiroshima-ken, 739-8527, Japan
SO Nihon Yukagakkaishi (2000), 49(1), 3-10
CODEN: NIYUFC; ISSN: 1341-8327
PB Nihon Yukagaku Gakkai
DT Journal; General Review
LA Japanese

L2 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1999:673070 CAPLUS
DN 131:307676
TI Method of producing plants which are tolerant or resistant to herbicides that inhibit 4-Hydroxyphenylpyruvate dioxygenase
IN Shipton, Catherine Ann; Bryan, Ian Bennett
PA Zeneca Limited, UK
SO PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|--|----------|-----------------|----------|
| PI | WO 9953081 | A1 | 19991021 | WO 1999-GB1059 | 19990407 |
| | W: | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | CA 2321965 | AA | 19991021 | CA 1999-2321965 | 19990407 |
| | AU 9934298 | A1 | 19991101 | AU 1999-34298 | 19990407 |
| | BR 9909501 | A | 20001212 | BR 1999-9501 | 19990407 |
| | EP 1078084 | A1 | 20010228 | EP 1999-915871 | 19990407 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | |
| | JP 2002511274 | T2 | 20020416 | JP 2000-543628 | 19990407 |
| PRAI | GB 1998-7818 | A | 19980409 | | |
| | WO 1999-GB1059 | W | 19990407 | | |

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 17 OF 27 AGRICOLA DUPLICATE 5
AN 2000:46448 AGRICOLA
DN IND22045086
TI Two fatty acid delta9- ***desaturase*** genes, ole1 and ole2, from Mortierella alpina complement the yeast ole1 mutation.
AU Wongwathanarat, P.; Michaelson, L.V.; Carter, A.T.; Lazarus, C.M.; Griffiths, G.; Stobart, A.K.; Archer, D.B.; MacKenzie, D.A.
CS Institute of Food Research, Norwich, UK.
SO Microbiology, Oct 1999. Vol. 145, No. pt.10. p. 2939-2946
Publisher: Reading, U.K. : Society for General Microbiology, c1994-
CODEN: MROBEO; ISSN: 1350-0872
NTE Includes references
CY England; United Kingdom
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L2 ANSWER 18 OF 27 AGRICOLA
AN 1999:34103 AGRICOLA
DN IND21982410
TI A growing family of ***cytochrome*** b5-domain ***fusion***

proteins.

AU Napier, J.A.; Sayanova, O.; Sperling, P.; Heinz, E.
CS University of Bristol, Long Ashton, Bristol, UK.
AV DNAL (QK1.T74)
SO Trends in plant science, Jan 1999. Vol. 4, No. 1. p. 2-4
Publisher: Kidlington, Oxford : Elsevier Science, Ltd., c1996-
ISSN: 1360-1385

NTE Includes references
CY England; United Kingdom
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L2 ANSWER 19 OF 27 AGRICOLA DUPLICATE 6
AN 1999:10832 AGRICOLA
DN IND21963594
TI A sphingolipid ***desaturase*** from higher plants. Identification of a new ***cytochrome*** b5 ***fusion*** protein.
AU Sperling, P.; Zahringer, U.; Heinz, E.
CS Universitat Hamburg, Hamburg, Germany.
AV DNAL (381 J824)
SO The Journal of biological chemistry, Oct 30, 1998. Vol. 273, No. 44. p. 28590-28596
Publisher: Bethesda, Md. : American Society for Biochemistry and Molecular Biology.
CODEN: JBCHA3; ISSN: 0021-9258

NTE Includes references
CY Maryland; United States
DT Article
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L2 ANSWER 20 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:338414 BIOSIS
DN PREV199800338414
TI ***Cytochrome*** b5 ***fusion*** proteins: A new class of higher plant fatty acid ***desaturases*** .
AU Napier, J. A. (1); Sayanova, O. (1); Lacey, D. J. (1); Beaudoin, F.; Shewry, P. R. (1); Stobart, A. K.
CS (1) IACR-Long Ashton Res. Station, Bristol UK
SO Journal of Experimental Botany, (May, 1998) Vol. 49, No. SUPPL., pp. 15. Meeting Info.: The Society for Experimental Biology Annual Meeting London, England, UK March 22-27, 1998 Society for Experimental Biology . ISSN: 0022-0957.
DT Conference
LA English

=> d 12 20-27

L2 ANSWER 20 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:338414 BIOSIS
DN PREV199800338414
TI ***Cytochrome*** b5 ***fusion*** proteins: A new class of higher plant fatty acid ***desaturases*** .
AU Napier, J. A. (1); Sayanova, O. (1); Lacey, D. J. (1); Beaudoin, F.; Shewry, P. R. (1); Stobart, A. K.

CS (1) IACR-Long Ashton Res. Station, Bristol UK
SO Journal of Experimental Botany, (May, 1998) Vol. 49, No. SUPPL., pp. 15.
Meeting Info.: The Society for Experimental Biology Annual Meeting London,
England, UK March 22-27, 1998 Society for Experimental Biology
. ISSN: 0022-0957.

DT Conference
LA English

L2 ANSWER 21 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:46304 BIOSIS
DN PREV199800046304
TI A new class of ***cytochrome*** b5 ***fusion*** proteins.
AU Napier, Johnathan A. (1); Sayanova, Olga; Stobart, A. Keith; Shewry, Peter R.
CS (1) IACR-Long Ashton Res. Station, Dep. Agricultural Sci., Univ. Bristol,
Long Ashton, Bristol BS18 9AF UK
SO Biochemical Journal, (Dec. 1, 1997) Vol. 328, No. 2, pp. 717-718.
ISSN: 0264-6021.
DT Letter; Article
LA English

L2 ANSWER 22 OF 27 AGRICOLA DUPLICATE 7
AN 1998:31359 AGRICOLA
DN IND20815362
TI Fah1p, a *Saccharomyces cerevisiae* ***cytochrome*** b5 ***fusion***
protein, and its *Arabidopsis thaliana* homolog that lacks the
cytochrome b5 domain both function in the alpha-hydroxylation of
sphingolipid-associated very long chain fatty acids.
AU Mitchell, A.G.; Martin, C.E.
AV DNAL (381 J824)
SO The Journal of biological chemistry, Nov 7, 1997. Vol. 272, No. 45. p.
28281-28288
Publisher: Bethesda, Md. : American Society for Biochemistry and Molecular
Biology.
CODEN: JBCHA3; ISSN: 0021-9258
NTE Includes references
CY Maryland; United States
DT Article
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L2 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1997:805379 CAPLUS
DN 128:164157
TI A new class of ***cytochrome*** b5 ***fusion*** proteins
AU Napier, Johnathan A.; Sayanova, Olga; Stobart, A. Keith; Shewry, Peter R.
CS IACR-Long Ashton Research Station, Department of Agricultural Sciences,
University of Bristol, Long Ashton, BS18 9AF, UK
SO Biochemical Journal (1997), 328(2), 717-718
CODEN: BIJOAK; ISSN: 0264-6021
PB Portland Press Ltd.
DT Journal; General Review
LA English

L2 ANSWER 24 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
8
AN 1995:499902 BIOSIS

DN PREV199598523452
TI A ***cytochrome*** -b-5-containing ***fusion*** protein similar to plant acyl lipid ***desaturases*** .
AU Sperling, Petra; Schmidt, Hermann; Heinz, Ernst (1)
CS (1) Inst. Allgemeine Botanik, Univ. Hamburg, Ohnhorststr. 18, D-22609 Hamburg Germany
SO European Journal of Biochemistry, (1995) Vol. 232, No. 3, pp. 798-805.
ISSN: 0014-2956.
DT Article
LA English

L2 ANSWER 25 OF 27 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
AN 94341510 EMBASE
DN 1994341510
TI Suppression of the hydrazine-induced formation of megamitochondria in the rat liver by .alpha.-tocopherol.
AU Antosiewicz J.; Nishizawa Y.; Liu X.; Usukura J.; Wakabayashi T.
CS Department of Bioenergetics, Academy of Physical Education, Wiejska 1,80-336 Gdansk-Oliwa, Poland
SO Experimental and Molecular Pathology, (1994) 60/3 (173-187).
ISSN: 0014-4800 CODEN: EXMPA6
CY United States
DT Journal; Article
FS 005 General Pathology and Pathological Anatomy
029 Clinical Biochemistry
048 Gastroenterology
052 Toxicology
037 Drug Literature Index
LA English
SL English

L2 ANSWER 26 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 9
AN 1991:49043 BIOSIS
DN BA91:27324
TI THE OLE1 GENE OF SACCHAROMYCES-CEREVISIAE ENCODES THE DELTA-9 FATTY ACID ***DESATURASE*** AND CAN BE FUNCTIONALLY REPLACED BY THE RAT STEAROYL COENZYME A ***DESATURASE*** GENE.
AU STUKEY J E; McDONOUGH V M; MARTIN C E
CS NELSON BIOL. LAB., BUREAU BIOL. RES., RUTGERS UNIVERSITY, BUSCH CAMPUS, PISCATAWAY, N.J. 08855-1059.
SO J BIOL CHEM, (1990) 265 (33), 20144-20149.
CODEN: JBCHA3. ISSN: 0021-9258.
FS BA; OLD
LA English

L2 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1979:182260 CAPLUS
DN 90:182260
TI The role of lipid in stearyl CoA desaturation
AU Holloway, P. W.; Roseman, M.; Calabro, A.
CS Dep. Biochem., Univ. Virginia, Charlottesville, VA, USA
SO Advances in Experimental Medicine and Biology (1977), 83(Funct. Biosynth. Lipids), 23-33
CODEN: AEMBAP; ISSN: 0065-2598
DT Journal
LA English

=> d 20-24 ab

L2 ANSWER 20 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

L2 ANSWER 21 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

L2 ANSWER 22 OF 27 AGRICOLA DUPLICATE 7

L2 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2003 ACS

AB Database searches and review of the literature reveal a new class of ***cytochrome*** b5 domain-contg. redox active enzymes. Examples include fatty acid .DELTA.6- ***desaturase*** , L-lactate dehydrogenase, nitrate reductase, fatty acid .DELTA.9- ***desaturase*** , and ceramide hydroxylase. Direct and genetic complementation expts. suggest that the ***cytochrome*** b5 domain is a functional redox active heme binding site.

L2 ANSWER 24 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 8

AB The similarity between oleate and linoleate ***desaturase*** sequences from several plants was used to construct degenerate oligonucleotide primers for PCR experiments with cDNA transcribed from mRNA of ripening sunflower embryos. A DNA fragment was amplified and sequenced. Specific primers derived from this partial sequence were used for rapid amplification of the 3'- and 5'-ends of this cDNA. With appropriate primers derived from these sequences, a full-length clone of 1377 hp was amplified by PCR which, after sequencing, showed an open reading frame of 458 amino acids corresponding to a putative protein of about 52 kDa. Comparison with other ***desaturases*** showed the conserved three histidine boxes and the characteristic hydropathy profile of membrane-bound ***desaturases*** , but the amino acid identity was restricted to 18% and the N-terminal region was about 100 amino acids longer. This N-terminal extension showed high similarity with ***cytochrome*** b, and, accordingly, the whole sequence can be considered as coding for a ***fusion*** protein between ***cytochrome*** b, and a ***desaturase*** -like enzyme.

Furthermore,

we detected a similar ***cytochrome*** b, fold in the previously sequenced DELTA-9 acyl-CoA ***desaturase*** from yeast, but in this enzyme it was located at the C-terminus. An alignment of these ***fusion*** proteins with other heme-binding proteins revealed ***desaturases*** to be novel members of the ***cytochrome*** b, superfamily. A truncated DNA representing 366 hp of the 5'-end was amplified from the cDNA clone and expressed in Escherichia coli. The truncated cDNA coded for a soluble protein of about 12 kDa as shown by SDS/PAGE and N-terminal sequencing. The enriched recombinant protein exhibited redox absorbance spectra characteristic of plant microsomal ***cytochrome*** b-5.

<-----User Break----->

=> file agricola biosis embase caplus
COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
|------------------|---------------|

| | | | |
|--|------------------|-------|---------------|
| FULL ESTIMATED COST | | 70.33 | 70.54 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | | TOTAL SESSION |
| CA SUBSCRIBER PRICE | | -0.65 | -0.65 |

FILE 'AGRICOLA' ENTERED AT 10:11:33 ON 07 JAN 2003

FILE 'BIOSIS' ENTERED AT 10:11:33 ON 07 JAN 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R)

FILE 'EMBASE' ENTERED AT 10:11:33 ON 07 JAN 2003
COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'CAPLUS' ENTERED AT 10:11:33 ON 07 JAN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

| | | | |
|--|------------------|------|---------------|
| => FIL STNGUIDE | | | |
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | | TOTAL SESSION |
| FULL ESTIMATED COST | | 2.71 | 73.25 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | | TOTAL SESSION |
| CA SUBSCRIBER PRICE | | 0.00 | -0.65 |

FILE 'STNGUIDE' ENTERED AT 10:12:00 ON 07 JAN 2003
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Dec 20, 2002 (20021220/UP).

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

| | | | |
|--|------------------|------|---------------|
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | | TOTAL SESSION |
| FULL ESTIMATED COST | | 0.18 | 73.43 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | | TOTAL SESSION |
| CA SUBSCRIBER PRICE | | 0.00 | -0.65 |

STN INTERNATIONAL LOGOFF AT 10:13:55 ON 07 JAN 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID : SSSPTA1600RKK

PASSWORD :

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * Welcome to STN International * * * * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded
NEWS 29 Oct 24 BEILSTEIN adds new search fields
NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 32 Nov 18 DKILIT has been renamed APOLLIT
NEWS 33 Nov 25 More calculated properties added to REGISTRY
NEWS 34 Dec 02 TIBKAT will be removed from STN
NEWS 35 Dec 04 CSA files on STN
NEWS 36 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 37 Dec 17 TOXCENTER enhanced with additional content

NEWS 38 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 39 Dec 30 ISMEC no longer available

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
 CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 17:46:21 ON 07 JAN 2003

=> file agricola biosis embase caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'AGRICOLA' ENTERED AT 17:46:36 ON 02 JAN 2003

FILE 'BIOSIS' ENTERED AT 17:46:36 ON 07 JAN 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R)

FILE 'EMBASE' ENTERED AT 17:46:36 ON 07 JAN 2003
COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved

FILE 'CAPLUS' ENTERED AT 17:46:36 ON 07 JAN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s codon(w) optimization and plant

=> s 11 and problem
L2 9. L1 AND PROBLEM

```
=> duplicate remove l1
DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, EMBASE, CAPLUS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L1
L3          9 DUPLICATE REMOVE L1 (3 DUPLICATES REMOVED)
```

=> d 13 1-9

L3 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS
 AN 2002:869043 CAPLUS
 DN 137:366673
 TI Transgenic ***plants*** carrying a foreign anthranilate synthase gene with increased tissue tryptophan content
 IN Weaver, Lisa M.; Liang, Jihong; Chen, Ridong; Jeong, Soon Seog; Mitsky, Timothy; Slater, Steven; Rapp, William
 PA Renessen LLC, USA; Monsanto Company
 SO PCT Int. Appl., 291 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|----------------------|--|----------|-----------------|----------|
| PI | WO 2002090497 | A2 | 20021114 | WO 2002-US14207 | 20020503 |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| | PRAI US 2001-288904P | P | 20010504 | | |

L3 ANSWER 2 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 2002:502153 BIOSIS
 DN PREV200200502153
 TI Gene optimization is necessary to express a bivalent anti-human anti-T cell immunotoxin in *Pichia pastoris*.
 AU Woo, Jung Hee; Liu, Yuan Yi; Mathias, Askale; Stavrou, Scott; Wang, Zhirui; Thompson, Jerry; Neville, David M., Jr. (1)
 CS (1) Section on Biophysical Chemistry, Laboratory of Molecular Biology, National Institute of Mental Health, 36 Convent Drive, 36 RM 1B08, Bethesda, MD, 20892-4034: davidn@helix.nih.gov USA
 SO Protein Expression and Purification, (July, 2002) Vol. 25, No. 2, pp. 270-282. <http://www.academicpress.com/pep.print>.
 ISSN: 1046-5928.

DT Article
 LA English

L3 ANSWER 3 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 2002:166349 BIOSIS
 DN PREV200200166349
 TI Genetically engineered human salivary histatin genes are functional in *Candida albicans*: Development of a new system for studying histatin candidacidal activity.
 AU Baev, Didi; Li, Xuewei; Edgerton, Mira (1)
 CS (1) Departments of Oral Biology, School of Dental Medicine, State University of New York at Buffalo, 3435 Main Street, Main Street Campus, Buffalo, NY, 14214: edgerto@buffalo.edu USA
 SO Microbiology (Reading), (December, 2001) Vol. 147, No. 12, pp. 3323-3334.
 print.
 ISSN: 1350-0872.

DT Article
LA English

L3 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2003 ACS
AN 2001:724310 CAPLUS
DN 136:2680
TI Production of the Gram-positive Sarcina ventriculi pyruvate decarboxylase in Escherichia coli
AU Talarico, Lee A.; Ingram, Lonnie O.; Maupin-Furlow, Julie A.
CS Department of Microbiology and Cell Science, University of Florida, Gainesville, FL, 32611-0700, USA
SO Microbiology (Reading, United Kingdom) (2001), 147(9), 2425-2435
CODEN: MROBEO; ISSN: 1350-0872
PB Society for General Microbiology
DT Journal
LA English
RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:387637 BIOSIS
DN PREV200000387637
TI Optimizing heterologous expression in Dictyostelium: Importance of 5' codon adaptation.
AU Vervoort, Elisa B.; van Ravestein, Arno; van Peij, Noel N. M. E.; Heikoop, Judith C.; van Haastert, Peter J. M.; Verheijden, Gijs F.; Linskens, Maarten H. K. (1)
CS (1) Cell Engineering Facility GBB, University of Groningen, Nijenborgh 4, 9747 AG, Groningen Netherlands
SO Nucleic Acids Research, (May 15, 2000) Vol. 28, No. 10, pp. 2069-2074.
print.
ISSN: 0305-1048.
DT Article
LA English
SL English

L3 ANSWER 6 OF 9 AGRICOLA DUPLICATE 1
AN 2001:870 AGRICOLA
DN IND22072392
TI The production of recombinant proteins in transgenic barley grains.
AU Horvath, H.; Huang, J.; Wong, O.; Kohl, E.; Okita, T.; Kannangara, C.G.; Von Wettstein, D.
SO Proceedings of the National Academy of Sciences of the United States of America, Feb 15, 2000. Vol. 97, No. 4. p. 1914-1919
Publisher: Washington, D.C. : National Academy of Sciences,
CODEN: PNASA6; ISSN: 0027-8424
NTE Includes references
CY District of Columbia; United States
DT Article; Conference
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L3 ANSWER 7 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:418353 BIOSIS
DN PREV20000418353
TI ***Codon*** ***optimization*** of xylanase gene xynB from the thermophilic bacterium Dictyoglomus thermophilum for expression in the

filamentous fungus *Trichoderma reesei*.
 AU Te'o, Valentino S. J.; Cziferszky, Angela E.; Bergquist, Peter L.;
 Nevalainen, K. M. Helena (1)
 CS (1) Department of Biological Sciences, Macquarie University, Sydney, NSW,
 2109 Australia
 SO FEMS Microbiology Letters, (1 September, 2000) Vol. 190, No. 1, pp. 13-19.
 print.
 ISSN: 0378-1097.
 DT Article
 LA English
 SL English

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2003 ACS

AN 1997:315722 CAPLUS

DN 126:326886

TI Synthetic genes for .delta.-endotoxins optimized for expression in corn
and the construction of insect-resistant ***plants***

IN Koziel, Michael G.; Desai, Nalini M.; Lewis, Kelly S.; Kramer, Vance C.;
Warren, Gregory W.; Evola, Stephen V.; Crossland, Lyle D.; Wright, Martha
S.; Merlin, Ellis J.; Launis, Karen L.; Rothstein, Steven J.; Bowman,
Cindy G.; Dawson, John L.; Dunder, Erik M.; Pace, Gary M.; Suttie, Janet
L.

PA Ciba-Geigy Corporation, USA

SO U.S., 214 pp., Cont.-in-part of U.S. Ser. No. 772,027, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|---|-----------------|----------|
| PI | US 5625136 | A | 19970429 | US 1992-951715 | 19920925 |
| | WO 9307278 | A1 | 19930415 | WO 1992-US8476 | 19921005 |
| | | W: | AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO,
PL, RO, RU, SD, US | | |
| | | RW: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF,
BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG | | |
| | AU 9227952 | A1 | 19930503 | AU 1992-27952 | 19921005 |
| | EP 618976 | A1 | 19941012 | EP 1992-922321 | 19921005 |
| | EP 618976 | B1 | 20020807 | | |
| | | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE | | |
| | JP 07500012 | T2 | 19950105 | JP 1992-507123 | 19921005 |
| | BR 9206578 | A | 19950411 | BR 1992-6578 | 19921005 |
| | HU 68261 | A2 | 19950628 | HU 1994-960 | 19921005 |
| | HU 220294 | B | 20011128 | | |
| | RO 110263 | B1 | 19951130 | RO 1994-539 | 19921005 |
| | EP 1209237 | A2 | 20020529 | EP 2002-1453 | 19921005 |
| | EP 1209237 | A3 | 20020731 | | |
| | | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE | | |
| | EP 1213356 | A2 | 20020612 | EP 2002-1448 | 19921005 |
| | EP 1213356 | A3 | 20020619 | | |
| | | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE | | |
| | AT 221916 | E | 20020815 | AT 1992-922321 | 19921005 |
| | US 6403865 | B1 | 20020611 | US 1995-438666 | 19950510 |
| | US 5859336 | A | 19990112 | US 1995-459448 | 19950602 |
| | US 6018104 | A | 20000125 | US 1995-459595 | 19950602 |
| | US 6051760 | A | 20000418 | US 1995-460408 | 19950602 |
| | US 6075185 | A | 20000613 | US 1995-459504 | 19950602 |

| | | | | | | |
|------|----------------|----|----------|----|-------------|----------|
| US | 6121014 | A | 20000919 | US | 1995-459444 | 19950602 |
| US | 6320100 | B1 | 20011120 | US | 2000-547422 | 20000411 |
| PRAI | US 1991-772027 | B2 | 19911004 | | | |
| | US 1990-573105 | A | 19900824 | | | |
| | US 1991-659433 | A | 19910225 | | | |
| | US 1992-951715 | A1 | 19920925 | | | |
| | EP 1992-922321 | A3 | 19921005 | | | |
| | WO 1992-US8476 | A | 19921005 | | | |
| | US 1993-8374 | B1 | 19930125 | | | |
| | US 1995-459504 | A1 | 19950602 | | | |

L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2003 ACS

AN 1999:621399 CAPLUS

DN 131:210415

TI Recombinant preparation of pesticide protein by expression of synthetic chimeric gene cryIA(a) from Bacillus thuringiensis kurstaki strains HD-1 and HD-73

IN Guo, Sandui; Ni, Wanchao; Xu, Qiongfang

PA Biological Tech. Research Center, China Agricultural Sciences Academy, Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 91 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | CN 1134981 | A | 19961106 | CN 1995-119563 | 19951228 |
| | CN 1037913 | B | 19980401 | | |
| PRAI | CN 1995-119563 | | 19951228 | | |

=> s codon(w)optimization and transform? and plant

L4 4 CODON(W) OPTIMIZATION AND TRANSFORM? AND PLANT

=> d 14 1-4 ti

L4 ANSWER 1 OF 4 AGRICOLA

TI The production of recombinant proteins in transgenic barley grains.

L4 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI ***Codon*** ***optimization*** of xylanase gene xynB from the thermophilic bacterium Dictyoglomus thermophilum for expression in the filamentous fungus Trichoderma reesei.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

TI Transgenic ***plants*** carrying a foreign anthranilate synthase gene with increased tissue tryptophan content

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS

TI The production of recombinant proteins in transgenic barley grains

=> s codon(w)optimization and unpredictability

L5 0 CODON(W) OPTIMIZATION AND UNPREDICTABILITY

=> s codon(w)optimization and unexpected

L6 0 CODON(W) OPTIMIZATION AND UNEXPECTED

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 44.11 | 44.32 |

STN INTERNATIONAL LOGOFF AT 17:53:21 ON 07 JAN 2003